

LISTING OF THE CLAIMS

A detailed listing of claims is presented below. Please amend currently amended claims as indicated below including substituting clean versions for pending claims with the same number. In addition, clean text versions of pending claims not being currently amended that are under examination are also presented. It is understood that any claim presented in a clean version below has not been changed relative to the immediate prior version.

1. (Currently Amended) A vehicle mounted device configured to transmit real time vehicle position data from said device to a network-based server for fleet management purposes using a wireless communication system in communication with said network-based server and with said device, comprising:

a first processing module carried by a vehicle for computing real time vehicle position data reflecting real time geographic locations of said vehicle, said first processing module including a positioning system receiver for receiving position signals from at least one source remote from said vehicle and for processing said position signals into said real time vehicle position data representing the position of said vehicle at a specific time and date;

a second processing module in communication with said first processing module and configured for receiving and for storing said real time vehicle position data and for controlling transmission of said real time vehicle position data to said network-based server, said second processing module including data storage means for receiving, storing and sending said real time vehicle position data, wireless communication system connecting means for connecting to and wirelessly transmitting said real time vehicle

position data to a receiver of a wireless communication system, and control means connected to said data storage means and to said wireless communication system for controlling transmission of said real time vehicle position data to said receiver and said network-based server, said control means being connected to and configured to:

cause said real time vehicle position data to be received from said first processing module,

cause a wireless connection to said network-based server to be established for a predetermined period of duration,

cause detection of establishment of said wireless connection,

cause said real time vehicle position data to be transmitted to said network-based server during periods when said wireless connection is established,

cause said real time vehicle position data to be stored in said data storage means when said wireless connection is not established,

cause said wireless connection to said network-based server to be reestablished following any period that said wireless connection is broken, and

cause said stored real time vehicle position data to be retrieved from said data storage means following reestablishment of said wireless connection, and thereafter transmit said stored real time vehicle position data to said network-based server,

said wireless communication system connecting means including a short-range wireless chipset and a built-in antenna housed within said second processing module and a wireless telephone having a compatible short range wireless chipset and an antenna housed within said wireless telephone, wherein said short-range wireless chipset is configured for wireless communication between said second processing module and said

wireless telephone and wherein said wireless telephone is configured for wireless communication with said receiver of said wireless communication system;

a power supply means connected for powering said first processing module and said second processing module;

a first conductor means connected to said power supply means and to said second processing module, said first conductor means being configured to transmit power from said power supply means to said second processing module; and

a second conductor means connected to said first processing module and to said second processing module, said second conductor means being configured to transmit said real time vehicle position data from said first processing module to said second processing module and being further configured to transmit power from said second processing module to said first processing module;

whereby said vehicle mounted device, in conjunction with said network-based server, enables any one or more of a plurality of fleet managers to simultaneously access said network-based server via a network service provider and thereafter monitor said ~~real~~ time vehicle position data and said stored real time vehicle position data corresponding to a fleet of vehicles designated to be monitored by a corresponding one of said any one or more of said plurality of fleet managers.

2. (Previously Presented) The vehicle mounted device of claim 1 further including event sensor means attached to said vehicle, wherein said second processing module further includes at least one sensory input connected to said control means, wherein said at least one sensory input is connected to said event sensor means for

detecting the occurrence of an event involving said vehicle and transmitting information regarding said event to said sensory input, and wherein said event sensor means is positioned on said vehicle.

3. (Previously Presented) The vehicle mounted device of claim 2, wherein said first conductor means has a first power cable connected to said power supply means and to said second processing module, and wherein said second conductor means has a data bus and a second power cable, said second power cable being connected to said first processing module.

4. (Original) The vehicle mounted device of claim 3, wherein said control means is selected from the group consisting of a microcontroller, a microprocessor and an ASIC device, wherein said data storage means is an electrically erasable programmable memory, wherein said positioning system receiver is a global positioning system ("GPS") receiver, and wherein said at least one source remote from said vehicle is a plurality of GPS satellites.

5. (Original) The vehicle mounted device of claim 4, wherein said wireless communication system is selected from the group consisting of wireless LAN/WAN, AMPS, Satellite, iDEN.TM., TDMA, CDMA, CDPD and GSM infrastructures.

6. (Previously Presented) The vehicle mounted device of claim 5, wherein said control means is further configured and connected to initialize all memory and data ports

and said data storage means upon start-up of said vehicle mounted device, enable interrupts and check for the presence and functionality of all hardware and operational modes of said vehicle mounted device, load operational setup parameters stored in said data storage means and check for the presence of real time vehicle position data stored in said data storage means.

7. (Previously Presented) The vehicle mounted device of claim 6, wherein said network-based server is a computer and wherein said network is one of the Internet network and the Intranet network.

8. (Original) The vehicle mounted device of claim 7, wherein said first module is positioned within a first housing, wherein said second module is positioned within a second housing, and wherein said power supply means is selected from the group consisting of a plug configured for insertion into a vehicle cigarette lighter, a wire connected to a fuse panel terminal, a wire connected to a vehicle storage battery, and a battery.

9. (Original) The vehicle mounted device of claim 8, further including receiving means for receiving incoming signals transmitted by said network-based server, said incoming signals including any one or more of ICMP ping messages, configuration messages, or poll messages.

10. (Previously Presented) The vehicle mounted device of claim 9 wherein said control means is further configured and connected to cause said setup parameters to be updated in response to receiving a configuration message, wherein said control means is further configured and connected to cause said real time vehicle position data to be transmitted to said network-based server in response to receiving a poll message.

11. (Previously Presented) The vehicle mounted device of claim 10, wherein said control means is further configured and connected to cause said real time vehicle position data to be transmitted to said network-based server at predetermined intervals, said intervals being selected from the group consisting of distance intervals and time intervals.

12. (Previously Presented) The vehicle mounted device of claim 11, wherein said control means is further configured and connected to cause said real time vehicle position data to be transmitted to said network-based server upon the occurrence of predetermined triggers, said triggers being selected from the group consisting of speed triggers, vehicle start triggers, vehicle stop triggers and sensory input triggers.

13. (Previously Presented) The vehicle mounted device of claim 12, wherein said control means is further configured and connected to cause a wireless connection to said network-based server to be established for predetermined time intervals.

14. (Previously Presented) The vehicle mounted device of claim 1, wherein said control means is further configured and connected to cause an identification code, that

uniquely identifies the vehicle mounted device, to be added to said real time vehicle position data and to transmit said identification code along with said real time vehicle position data.

15. (Currently Amended) A method for transmitting vehicle position data to a network-based server for fleet management purposes using a vehicle position locating device carried by a vehicle located remotely from said network-based server and a wireless communication system in communication with both said network-based server and said vehicle position locating device, said method comprising the steps:

establishing a wireless connection between said vehicle position locating device and said network-based server located remote from said vehicle position locating device;

receiving position signals by said vehicle position locating device from at least one source remote from said vehicle and date, time, processing said position signals into vehicle position data representing at [[lease]] least one of the position, velocity and direction of travel of said vehicle at a specific time and date;

detecting whether said wireless connection is established;

transmitting said vehicle position data to said network-based server during periods when said wireless connection is established;

storing said vehicle position data to a storage device when said wireless connection is not established;

reestablishing said wireless connection following any period that said wireless connection is broken; and

retrieving said stored vehicle position data from said storage device following reestablishment of said wireless connection, and thereafter transmitting said stored vehicle position data to said network-based server;

whereby said vehicle position locating device, in conjunction with said network-based server, enables any one or more of a plurality of fleet managers to simultaneously access said network-based server via a network service provider and thereafter monitor said vehicle position data and said stored vehicle position data corresponding to a fleet of vehicles designated to be monitored by a corresponding one of said any one or more of said plurality of fleet managers;

wherein said vehicle position locating device comprises:

a first processing module carried by said vehicle for computing said vehicle position data reflecting a geographic location of said vehicle at a specific time, said first processing module including a positioning system receiver for receiving position signals from at least one source remote from said vehicle and for processing said position signals into said vehicle position data representing the position of said vehicle at said specific time;

a second processing module in communication with said first processing module and configured for receiving and for storing said vehicle position data and for controlling transmission of said vehicle position data to said network-based server, said second processing module including data storage means for storing said vehicle position data, wireless communication system connecting means for connecting to and transmitting said vehicle position data to said wireless communication system, and control means connected to said data storage means and said wireless communication system connecting

means for controlling transmission of said vehicle position data to said network-based server, said control means being connected and configured to:

cause said vehicle position data to be received from said first processing module,

cause a wireless connection to said network-based server to be established for a predetermined period of duration,

cause detection of said wireless connection,

cause said vehicle position data to be transmitted to said network-based server during periods when said wireless connection is established,

cause said vehicle position data to be stored in said data storage means when said wireless connection is not established,

cause said wireless connection to said network-based server to be established following any period that said wireless connection is broken, and

cause said vehicle position data to be retrieved from said data storage means following reestablishment of said wireless connection, and thereafter transmit said stored vehicle position data to said network-based server,

said wireless communication system connecting means including a short-range wireless chipset and a built-in antenna housed within said second processing module and a wireless telephone having a compatible short-range wireless chipset and an antenna housed within said wireless telephone, wherein said short-range wireless chipset is configured for wireless communication between said second processing module and said wireless telephone and wherein said wireless telephone is configured for wireless communication with said wireless communication system;

a power supply means connected for powering said first processing module and said second processing module;

a first conductor means connected to said power supply means and to said second processing module, said first conductor means being configured to transmit power from said power supply means to said second processing module; and

a second conductor means connected to said first processing module and to said second processing module, said second conductor means being configured to transmit said vehicle position data from said first processing module to said second processing module and being further configured to transmit power from said second processing module to said first processing module.

16. (Original) The method of claim 15, wherein said at least one source is a plurality of GPS satellites.

17. (Original) The method of claim 16, wherein said network-based server is a computer and wherein said network is the Internet.

18. (Previously Presented) The method of claim 15, further including generating and transmitting an identification code, that uniquely identifies the vehicle position locating device, along with said vehicle position data.

19. (Canceled) Please cancel without prejudice.

20. (Canceled) Please cancel without prejudice.
21. (Canceled) Please cancel without prejudice.
22. (Canceled) Please cancel without prejudice.
23. (Canceled) Please cancel without prejudice.
24. (Canceled) Please cancel without prejudice.
25. (Canceled) Please cancel without prejudice.
26. (Canceled) Please cancel without prejudice.
27. (Canceled) Please cancel without prejudice.
28. (Canceled) Please cancel without prejudice.
29. (Canceled) Please cancel without prejudice.
30. (Canceled) Please cancel without prejudice.
31. (Canceled) Please cancel without prejudice.
32. (Canceled) Please cancel without prejudice.

33. (Canceled) Please cancel without prejudice.

34. (Canceled) Please cancel without prejudice.

35. (Canceled) Please cancel without prejudice.